Electronic Version
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Claims

[c1] 1.An internal combustion engine and bearing arrangement for an engine driven accessory, said engine having a driven shaft journalled by a pair of mating light alloy castings, a reinforcing element formed from a stronger material than said castings embedded in one of said mating castings, a component of said engine driven accessory being supported directly by said reinforcing element.

[c2] 2.An internal combustion engine and bearing arrangement as set forth in claim 1 wherein the driven shaft is supported at least in part by the reinforcing element.

[c3] 3.An internal combustion engine and bearing arrangement as set forth in claim 1 wherein the pair of mating castings comprise a cylinder block and a bulkhead member cooperating to journal the engine driven shaft that comprises a crankshaft.

[c4] 4. An internal combustion engine and bearing arrangement as set forth in claim 3 wherein the engine driven accessory is driven from the crankshaft by a flexible transmitter.

[c5] 5.An internal combustion engine and bearing arrangement as set forth in claim 4 wherein the component of the engine driven accessory mounted by the reinforcing element comprises a tensioner for the flexible transmitter.

[c6] 6.An internal combustion engine and bearing arrangement as set forth in claim 5 whereinthe tensioner is comprised of a pivotally supported member for applying pressure to the flexible transmitter.

[c7] 7.An internal combustion engine and bearing arrangement as set forth in claim 6 wherein the pivotal support for the member is provided by a pin carried directly by the reinforcing member.

[c8] 8.An internal combustion engine and bearing arrangement as set forth in claim 6 wherein the pivotally supported member is biased by a torsional coil spring having an end engaged with the pivotally supported member and another end engaged with the bulkhead member.

[c9] 9.An internal combustion engine and bearing arrangement as set forth in claim 8 wherein the other spring end is trapped in a slot formed in the bulkhead member and closed by the engagement of the bulkhead member with the cylinder block.

[c10] 10.An internal combustion engine and bearing arrangement as set forth in claim 9 wherein the pivotal support for the member is provided by a pin carried directly by the reinforcing member.